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Executive Leadership Team – Judit Lorincz, Brianna Kroeker,
Marie Tabata-Callerame, Tim Greseth, John Connell



Lacamas Creek
Partnership
for clean water



[Link to Written Transcript of Presentation](#)

Welcomes and Introductions



Devan Rostorfer



Sheelagh McCarthy



Molly Gleason



Lawrence Sullivan



Coming Soon!

Water Quality Specialist
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Hydrogeologist
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Monitoring Specialist
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Nonpoint Specialist
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1-800-NPS-WATER



Presentation Objectives

1. Provide an overview of Ecology's Water Cleanup process.
2. Present plan for the Lacamas Creek Source Assessment and Monitoring.

Southwest Regional Office



VFO Staff Working for SW Washington



Rian Sallee
VFO Manager



Dana Mocca
VFO Secretary

Vancouver Field Office Team



Spill Prevention



Ken Esplin
Facility Prevention
Engineer



Vacant
Vessel and Oil Transfer
Inspector

Toxics Cleanup



Craig Rankine
Cleanup Site Manager
Hydrogeologist



Dave Mora
Municipal Stormwater
Grants Manager

Water Quality



Jessica McConnell
Sand & Gravel / Winery
Permit Manager



Noosheen Pouya
Municipal Stormwater
Permit Planner

Spill Response



Curt Piesch
Response Team



Ben Cornell
Response Team

Shorelands & Environmental Assistance



Miranda Adams
Shorelands & Wetlands Specialist



Devan Rostorfer
TMDL Coordinator



Jason Lenz
Forest & Fish

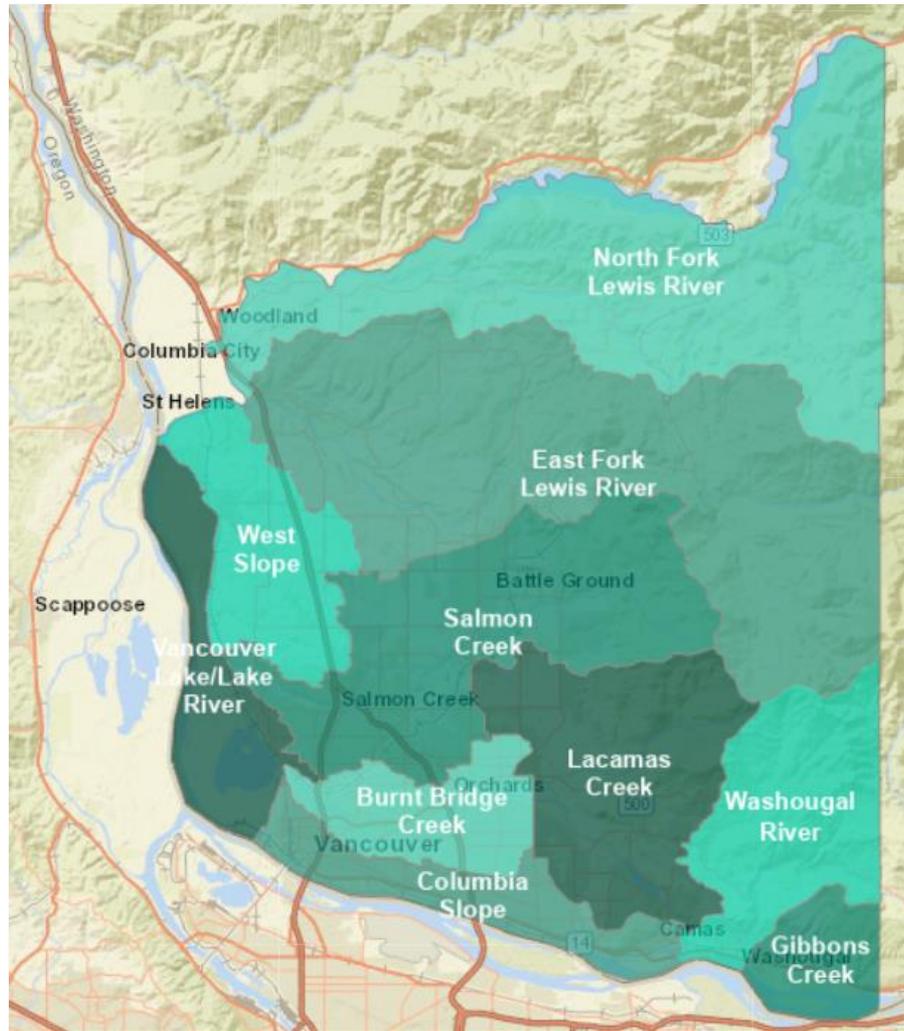


Greg Bengé
Senior Construction
Stormwater Inspector

Overview of Clark County Watersheds



Clark County watersheds



USDA Census of Agriculture 2017

2017 CENSUS OF AGRICULTURE *County Profile*




**Clark County
Washington**

Total and Per Farm Overview, 2017 and change since 2012

	2017	% change since 2012
Number of farms	1,978	+3
Land in farms (acres)	90,737	+21
Average size of farm (acres)	46	+18

(Z) Percent of state agriculture sales

Share of Sales by Type (%)

Crops	42
Livestock, poultry, and products	58

USDA Census of Agriculture 2017

Market Value of Agricultural Products Sold

	Sales (\$1,000)	Rank in State ^b	Counties Producing Item	Rank in U.S. ^b	Counties Producing Item
Total	47,702	23	39	1,796	3,077
Livestock, poultry, and products	27,829	17	39	1,392	3,073
Poultry and eggs	6,615	10	39	602	3,007
Cattle and calves	(D)	20	39	(D)	3,055
Milk from cows	13,887	12	29	383	1,892
Hogs and pigs	94	10	39	931	2,856
Sheep, goats, wool, mohair, milk	435	9	39	390	2,984
Horses, ponies, mules, burros, donkeys	512	8	39	416	2,970
Aquaculture	(D)	30	33	(D)	1,251
Other animals and animal products	(D)	(D)	39	(D)	2,878

\$47.7M - Market Value for Agriculture

in Clark County, 2017

\$27.8M - Market Value of Livestock

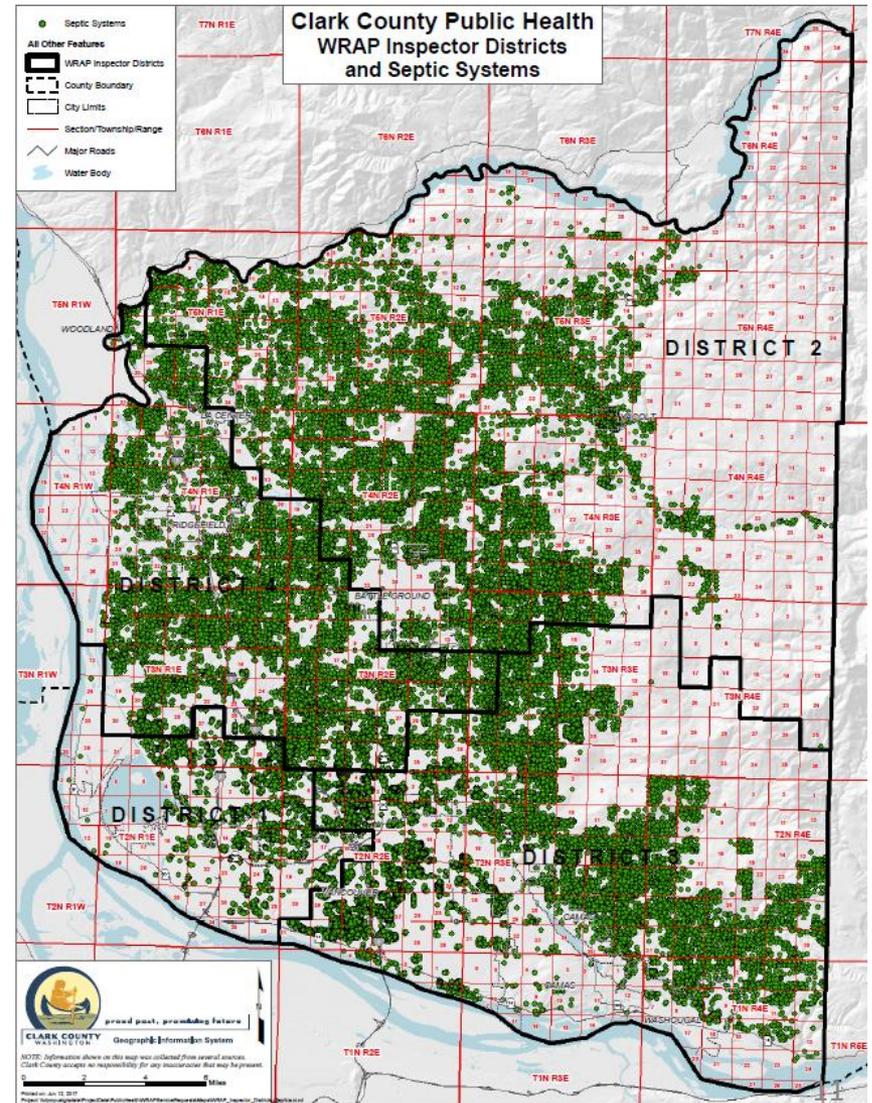
in Clark County, 2017

Livestock Inventory (Dec 31, 2017)

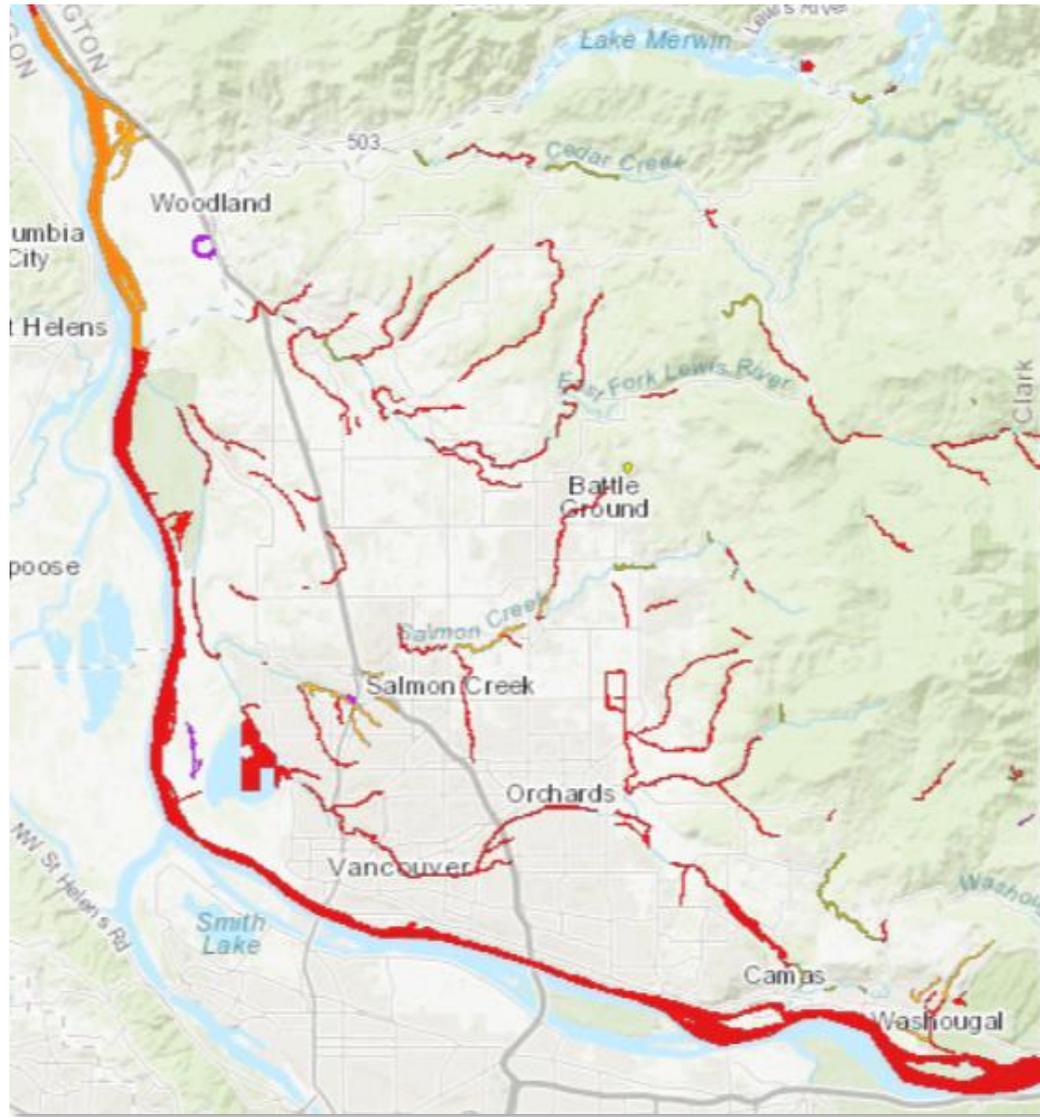
Broilers and other meat-type chickens	313,524
Cattle and calves	15,065
Goats	1,939
Hogs and pigs	412
Horses and ponies	2,687
Layers	11,470
Pullets	2,032
Sheep and lambs	2,016
Turkeys	314

Septic Systems

- 34,500 Septic Systems in County
- 30% or 10,350 noncompliant systems.
- Inspection = Every 3 years
- Maintenance = Every 5 years

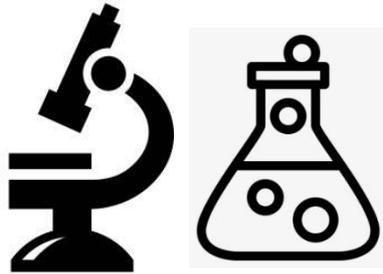


Clark County Polluted Waters



Ecology's Water Cleanup Process

Question: *How much pollution needs to be reduced to meet water quality standards?*



Step 1: Water quality monitoring and data collection

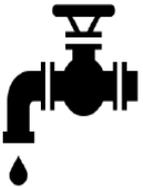


Step 2: Source Assessment



Step 3: Water Cleanup Planning

Step 4: Implementation – Septic systems, agriculture, restoration, stormwater.



Source Assessment vs. Water Cleanup Plan

Source Assessment

- Identify critical areas for water quality
- Estimate pollutant reductions needed
- Recommend bacteria reductions
- Identify priority planting areas

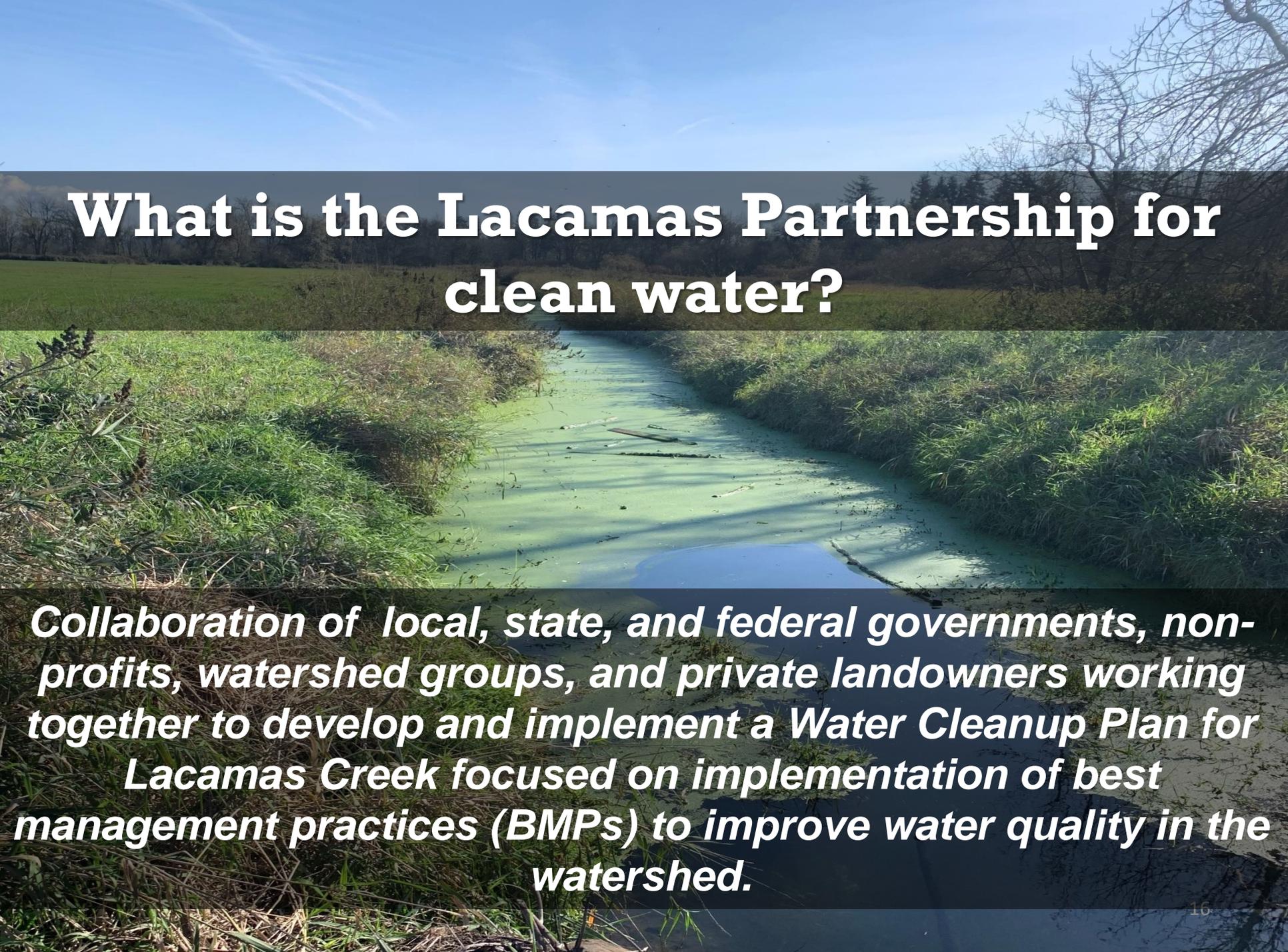
Water Cleanup Plan

- Implementation Plan
- Estimate financial and technical assistance needed
- Implementation timeline
- Criteria to measure progress
- Effectiveness monitoring



What is the Lacamas Partnership for clean water?





What is the Lacamas Partnership for clean water?

Collaboration of local, state, and federal governments, non-profits, watershed groups, and private landowners working together to develop and implement a Water Cleanup Plan for Lacamas Creek focused on implementation of best management practices (BMPs) to improve water quality in the watershed.

Milestones

Quality Assurance Project Plan

Lacamas Creek Bacteria, Temperature
Dissolved Oxygen, and pH Source
Assessment



Timeline for Lacamas Creek Partnership

- June 2021** – Begin water quality monitoring and data collection.
- October 2021** – Complete water quality monitoring.
- August 2022** – Complete technical analysis of water quality data.
- April 2023** – Complete Draft Source Assessment Report identifying critical areas for water quality improvement.
- May 2023** – Water Cleanup Plan begins focused on implementation.

Achieve Clean Water
Meet Water Quality Standards
Support Beneficial Uses
For People, Fish, & Wildlife
Residents & Visitors of Clark County



Agency Partners



Roles and Responsibilities

- **Water Quality Data Collection** – Molly Gleason, Ecology
- **Source Assessment** – Sheelagh McCarthy & Molly Gleason, Ecology
- **Water Cleanup Plan** – Devan Rostorfer, Ecology
- **Lake Management Plan** – City of Camas & Ecology's Freshwater Algae Control Program
- **Swimming Advisories** – Clark County Public Health

Roles and Responsibilities

- **Dairy Nutrient Management** – WSDA
- **Agriculture** – Poop Smart Clark (Clark CD & NRCS)
- **Septic Systems** – Clark County Public Health
- **Stormwater** – Clark County, Camas, Vancouver

How do we get involved?

- **Education and outreach** – Help your neighbor understand what they can do to protect clean water
- **Support** – Donate or vote to support your local environmental programs!
- **Septic systems** – Inspection, maintenance, repair
- **Agriculture** – Manure management for livestock and horses
- **Restoration** – Tree planting, wetland protection, backyard habitat
- **Lawn care** – Be mindful about fertilizer application
- **Pet waste** – Pick up your dog doo



PUBLIC WORKS



PUBLIC HEALTH

Poop Smart Clark

Pollution Identification
and
Correction



DEPARTMENT OF
ECOLOGY
State of Washington



WATERSHED
ALLIANCE
of Southwest Washington



NRCS

www.tinyurl.com/lacamaspartnership

Lacamas Creek
Partnership
for clean water



If you see something, say something!

www.ecy.wa.gov/reportanissue

Southwest Regional Office

Counties: Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Mason, Lewis, Pacific, Pierce, Skamania, Thurston, and Wahkiakum

Online: [Statewide reporting form](#)

Email: swroerts@ecy.wa.gov

Phone: 360-407-6300



Investment in watersheds = Investment in lakes

**NO
SWIMMING**

WARNING!
CYANOBACTERIA (BLUE GREEN ALGAE) IS PRESENT
AVOID WATER CONTACT



No swimming No wading No wind surfing
Keep animals out of water

For information contact Clark County:
Public Health at 397-8428 or Parks Dept. at 619-1111

**Thank you for your
commitment to clean water!**





Lacamas Creek Source Assessment

*Molly Gleason, Water Quality Specialist, Washington
State Department of Ecology*

